

FACULTY OF SCIENCE EMAIL BULLETIN FOR RESEARCH STAFF

Bulletin 9/2004
(22 July 2004)

Items for inclusion in this bulletin

Please forward any items to Matt Randall (matt.randall@sci.monash.edu.au).

Requests should include full information on application / nomination procedures, dates and deadlines, and contact details or links to further information.

Previous copies of this bulletin are now archived on the Faculty of Science website at <http://www.sci.monash.edu.au/staff/research/index.html>

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Part A – News

1. Fringe Inventions 04

Ms Colleen Burke, Fringe Inventions and Furniture Producer 04 is seeking 'amazing' inventions and trend-setting designs from lecturers and students to exhibit at this Melbourne Fringe produced event. Fringe Inventions will showcase products from the emerging innovators of the future and celebrates the art of invention and design. This project is supported by the Department of Industry, Innovation and Regional Development and the City of Stonnington. Mr Roger La Salle, the chair of Innovic and regular judge from the ABC 'New Inventors' program (see <http://www.abc.net.au/newinventors/>), will be evaluating the ideas presented on the merits of its originality and design qualities. Mr La Salle is keen to feature elements of the exhibition and winning inventions on the 'New Inventors' show and website.

The Awards will be held at the launch of Fringe Inventions on Sunday, 26 September 2004.

Further information

Ms Colleen Burke
Fringe Inventions and Furniture Producer 04
Telephone: (03) 8412 8788
Mobile: 0408 318 346

2. ARC e-Research Support

The Australian Research Council (ARC) is proposing a new Special Research Initiatives scheme for e-Research. Details are given on the ARC website at http://www.arc.gov.au/pdf/e-Research_slides3.pdf.

3. Visit from the Head of the Graduate Research Office at the University of Sheffield, UK (8 September 2004)

The Monash Research Graduate School (MRGS) has advised that Mr Peter Fearnley, Head of the Graduate Research Office at the University of Sheffield, UK, will be visiting Monash on Wednesday, 8 September 2004 and possibly again on Friday, 10 September 2004.

The purpose of his visit is to "gain an appreciation of the issues and priorities relating to postgraduate research support (and in particular the provision of central facilities) from the perspective of the key stakeholders". Peter's tentative schedule involves meeting with MRGS staff and Professor Max King, a tour of the Research Graduate Centre, and discussions with research students.

Further information

Ms Amelia Church
Administrative Officer (Marketing & Scholarships)
Monash Research Graduate School
Telephone: (03) 9905 4638
Email: Amelia.Church@adm.monash.edu.au

4. Research Grants and Ethics Branch (RGEB): 'What's coming up?' web page

The Research Grants and Ethics Branch (RGEB) maintains a page of upcoming news and events for researchers at www.monash.edu.au/resgrant/general/latestnews/index.html

Part B - Events

5. Monash Centre for Synchrotron Science seminar (26 July 2004)

Fulvia Arfelli and Ralf Menk, of ELETTRA Synchrotron in Trieste, Italy, are two of the world leaders in medical imaging using synchrotrons, have been instrumental in the development of crystal-based phase contrast medical imaging and are part of a program that is now set to embark upon human trials.

Date, time, and venue

Monday, 26 July 2004 in Theatre S12, Building 25, Monash University, Clayton campus

- 3:00 pm: Fulvia Arfelli - "Mammography using Synchrotron Radiation - the Current State of the Art"
- 4:00 pm: Ralf Menk - "Status of the European Phase Analyser Project and Future Perspectives"

Further information

http://www.sci.monash.edu.au/news/docs/MCSS_Seminar.pdf

RSVP

RSVP to Ms Nancy Place by email at Nancy.Place@spme.monash.edu.au or telephone on (03) 9905 8059

6. FEAST-France: Cotutelle Event in Victoria (5 August 2004)

The Australian French Association for Science and Technology "AFAS Victoria" and the French-Australian Research Network "FEAST-France" will give a public presentation on options for undertaking a French-Australian joint / double-badged PhD in 'Cotutelle'. This function will be followed by a cocktail with the opportunity to network with participants. The event will also include a farewell to Alain Moulet, Science and Technology Attache, French Embassy in Australia.

The meeting is free and open to all - academics, scholars, researchers, postgraduate candidates, research administrators, funding organisations, and others.

What is 'cotutelle'?

Originally the concept of a jointly conducted doctoral program was developed by the French Government as part of a cotutelle mechanism for developing partnerships between French and other research institutions. Such programs now operate in a number of countries, especially in Europe. Candidature is conducted under joint supervision and enrolment arrangements of the 'home' and 'partner' university. The candidate thus receives a doctoral degree from each of the two participating institutions, with the graduate's testamur and official academic record stating that the degree was obtained under a cotutelle agreement. For more information see <http://www.monash.edu.au/phdschol/forms/academic/cotutelle/>.

Date, time, and venue

Thursday, 5 August 2004 from 5:30 - 7:00 pm (followed by cocktails)

The Gryphon Gallery, Graduate Centre on Gratton Street, 1888 building, Parkville Campus, The University of Melbourne

RSVP

RSVP by Monday, 2 August 2004 to Sharon Renaut via email at s.renaut@unimelb.edu.au

Speakers

- Representatives from several universities and research institutions of Victoria
- Dr Robin Batterham, Chief Scientist of Australia
- Representative from the Department of Education, Science and Training (DEST)

- Representative from the French Embassy in Australia

Program and further information

The program will be available soon from <http://www.ambafrance-au.org/science/> (see 'new' and 'cotutelle')

7. Faculty of Science 'Postgraduate Research Expo' (18 August 2004)

The Faculty of Science will be hosting this postgraduate recruitment event during National Science Week. Researchers from each of the six schools of the faculty will showcase their leading and emerging research areas, and speakers will provide personal insights into fulfilling and exciting careers that followed from their postgraduate research studies. Drinks and finger foods will be provided.

Date, time, and venue

Wednesday, 18 August 2004 from 6:30 - 10:00 pm

Monash STRIP, Building 75, Monash University, Clayton campus, Wellington Road

Bookings and further information

<http://www.sci.monash.edu.au/scienceweek/>

8. Faculty of Science 'Heavenly attractions at Monash: an astronomical event' (19 August 2004)

The Faculty of Science will be hosting this National Science Week event.

Date, time, and venue

Thursday, 19 August 2004 from 7:30 - 10:30 pm

South One Lecture Theatre, Building 64, Monash University, Clayton campus, Wellington Road

Professor Rob Norris, Dean, Faculty of Science invites you to explore the universe with Monash Science and the Astronomical Society of Victoria at the special event, Heavenly attractions at Monash.

Three astrophysicists from our School of Mathematical Sciences will share with you the science of astronomy when speaking about their exciting space research:

Speakers

- Dr Andrew Prentice: "The solar system"
- Dr Rosemary Mardling: "Extra solar planets – discovering other worlds"
- Dr Alina-Catalina Donea: "Black holes and their environment"

Perry Vlahos, Vice President of the Astronomical Society of Victoria, will use a laser pointer to direct you to the brightest stars and planets, and will outline the shapes of the constellations. You can look at some celestial objects through large telescopes provided by Society members (weather permitting). Tea and coffee will be provided.

Bookings and further information

<http://www.sci.monash.edu.au/scienceweek/>

9. Feast-Cordis: The gateway to research and industry partnerships with Europe (18 August 2004)

The CORDIS website (Community Research and Development Information Service) provides a unique overview of research and technological development in Europe and offers opportunities for Australian academic and industry researchers, research agencies, research managers, and technology transfer agencies to develop their relationships with Europe.

Date, time, and venue

- Wednesday, 18 August 2004 from 9:00 am to 12:00 pm, Level 46, ANZ building, 55 Collins Street, Melbourne
- Wednesday, 18 August 2004 from 1:30 pm to 3:00 pm, Theatre 3, 3rd Floor, School of Medicine, The University of Melbourne, Parkville

Speaker

Mr Declan Kirrane, the architect of CORDIS

Further information and registration

<http://www.monash.edu.au/resgrant/general/latestnews/index.html#cordis>

10. International workshop on "Insect Sensors and Robotics" (23-26 August 2004)

The Sir Mark Oliphant International Frontiers of Science and Technology Conference Series is managed by the Australian Academy of Science, the Academy of Technological Sciences and Engineering (ATSE), and Engineers Australia. It supported by the Department of Education, Science and Training (DEST) under the Innovation Access Program.

The workshop will bring together creative roboticists with the best biologists, working on the structure and function of insect sensory and flight motor systems, to design novel, biologically inspired Micro UAVs and legged vehicles for a variety of applications. The workshop will take place immediately after the International Congress of Entomology, which will also be held in Brisbane. The workshop will be a boutique event with a maximum of 150 participants. If you are interested in attending, please ensure early registration.

Venue

Emmanuel College
The University of Queensland, Brisbane

Further information and registration

<http://isr.rsbs.anu.edu.au/>

11. Second AGSE Regional Entrepreneurship and Innovation Research Exchange (10 -11 February 2005; call for papers by 16 August 2004)

The Australian Graduate School of Entrepreneurship and its associates, the Queensland University of Technology, University of South Australia, RMIT University, Nanyang Technological University (Singapore) and UNITEC (New Zealand), with assistance from the Babson Kauffman Entrepreneurship Research Conference, are pleased to advise you of the second AGSE Regional Entrepreneurship Research Exchange and Doctoral Consortium. The 2004 Exchange attracted 118 papers from eleven countries.

Participation - papers

Titles and summaries of papers for presentation at the AGSE-ERE in 2005 should comprise a one-page (400 word maximum) summary by Monday, 16 August 2004 and a 7500 maximum word count final paper by Wednesday, 1 December 2004. Authors should submit by email to mjgillin@swin.edu.au. Summaries will be reviewed by an international panel. Selection will be advised by Wednesday, 1 September 2004. All presented papers will be compiled in a

referenced CD Rom available at the conference. Approximately 30 peer reviewed papers will be printed in full, together with all summaries of other papers presented, in the AGSE-ERE Proceedings

Venue

Australian Graduate School of Entrepreneurship (AGSE), Swinburne University of Technology, Melbourne

Registration

\$330.00 (inc. GST) payable by Wednesday, 1 December 2004

Further information and registration

<http://www.swin.edu.au/agse/research/conferences.htm>

Part C - Grants and Fellowships opportunities

12. Collier Charitable Fund: Equipment Grants for Research and Teaching (11 August 2004)

The Collier Charitable Fund offers up to \$2500 towards the purchase of each item of equipment for research and teaching purposes. The amount requested from Collier Charitable Fund must be supported at the minimum, by matching faculty / school financial contributions towards the cost of the equipment.

A two-page application, including a brief non-technical statement describing the equipment requested, the research and teaching uses and the purchase price, exclusive of GST, is required.

If requesting funding for more than one item of equipment separate application forms must be completed. Please prioritise the items requested. An application that involves more than one department must have the signature and financial commitment of all heads of schools involved.

Deadline for applications

11 August 2004 (9:00 am) with the Faculty of Science. Please note that applications must be received by 9:00 am for the signature of the Associate Dean (Research)

Guidelines and further information

<http://www.monash.edu.au/resgrant/grantinfo/digest/grants/collier.html#synopsis>

13. Australian-American Fulbright Commission - Fulbright Awards 2005 (23 August 2004)

The Australian-American Fulbright Awards are open to Australians from all academic fields and professional backgrounds, including the Visual and Performing Arts, for study or research in the USA. The awards consist of Postdoctoral Fellow Award, Senior Scholar Awards, Professional Awards, and Postgraduate Student Awards. Awards must be taken up between July 2005 and June 2006.

Applicants for Australian Fulbright awards must be Australian citizens. Applicants with dual Australian/US citizenship are ineligible to apply.

A. Postdoctoral Fellow Award

The Commission will provide one award in 2005. Applicants should have recently completed a PhD. Fulbright Postdoctoral Fellowships are awarded to researchers who have recently

completed a PhD, and who are no more than three years post PhD. (Applicants who are four to five years postdoctoral and present a stronger case will be considered.) Grantees will receive a travel entitlement of \$A2500 (for less than six months duration) or \$A4000 (for more than six months duration); a stipend of US\$1400 per month, for a maximum period of 12 months; and other allowances. Additional benefits apply for one dependent. Interviews will be held in late September or early October 2004.

Preference will be given to those applicants without previous academic experience in the United States.

Guidelines and application form

<http://www.monash.edu.au/resgrant/grantinfo/digest/awardfel/ausamfulbright.html>

<http://www.fulbright.com.au/home.htm>

Submission requirements

Original plus 8 copies to RGEB

Deadline for applications

Monday, 23 August 2004 with RGEB (Tuesday, 31 August 2004 with Fulbright Victorian State Selection Committee)

B. Senior Scholar Awards

The Commission will provide up to two awards in 2005 for scholars of established reputation working in an academic institution who intend to teach or undertake research in the United States; practising professionals in the Arts who have established reputations in their fields; senior members of academically-based professions who are currently engaged in the private practice of their profession; and those of recognised academic or professional distinction who have been invited to the United States by a tertiary institution, learned society or professional organisation for a significant short-term purpose (such as invited speakers at a national or international conference, major research program, provider of master classes or contributor to a major exhibition).

Awards are provided for three to six months. A grantee will receive: a travel entitlement of \$A2500; a stipend of US\$2210 per month and other allowances. Additional benefits apply for one dependent.

Guidelines and application form

<http://www.monash.edu.au/resgrant/grantinfo/digest/awardfel/ausamfulbright.html>

<http://www.fulbright.com.au/home.htm>

Submission requirements

Original plus 6 copies to RGEB.

Deadline for applications

Monday, 23 August 2004 with RGEB (Tuesday, 31 August 2004 with Fulbright Victorian State Selection Committee)

C. Professional Awards

These awards are for junior to mid level staff with a record of achievement, who are poised for advancement to a senior role. Programs must include an educational component, such as a short-course and / or research and may involve other forms of professional experience, including visits to relevant organisations.

There will be four Professional Fulbright Awards offered in 2005. The grantee will receive: a travel entitlement of \$A4000; a stipend of US\$2275 per month for a maximum of 4 or 6 months (depending on award); and an establishment allowance of US\$350. Other conditions apply.

1. General Award

One General Professional Award for 3 - 4 months will be provided in 2005 for a person working as a practitioner in any of the professional fields.

2. Vocational Education and Training (VET) Award (sponsored by the Australian National Training Authority (ANTA))

This 3 - 4 month award is for employees in the VET sector or training leaders in business and industry or staff within universities that actually teach within the TAFE sector of the University (eg RMIT), but not for university academics that study VET as an academic discipline.

3. Australian-United States Alliance Studies Award (sponsored by the Department of Foreign Affairs and Trade)

This 3 - 6 month award aims to contribute in a practical way to contemporary Australian scholarship on the Australia-U.S. alliance relationship.

4. Business/Industry (Coral Sea) Award

For professionals from public and private fields to study and research an identified problem or opportunity relevant to Australian industry or business. The award is for 3 - 4 months.

Guidelines and application form

<http://www.monash.edu.au/resgrant/grantinfo/digest/awardfel/ausamfulbright.html>

<http://www.fulbright.com.au/home.htm>

Submission requirements

Original plus 11 copies to RGE B

Deadline for applications

Monday, 23 August 2004 with RGE B (Tuesday, 31 August 2004 with Fulbright Victorian State Selection Committee)

D. Fulbright Postgraduate Awards

1. General awards open to all fields of study; and
2. Sponsored awards offered in specific fields of study.

Guidelines and application form

<http://www.monash.edu.au/resgrant/grantinfo/digest/awardfel/ausamfulbright.html>

<http://www.fulbright.com.au/home.htm>

Submission requirements

Original plus 11 copies to RGE B

Deadline for applications

Monday, 23 August 2004 with RGE B (Tuesday, 31 August 2004 with Fulbright Victorian State Selection Committee)

14. Australian Academy of Science - Senior Awards (30 August 2004)

The Academy recognises distinguished research performance by scientists, and these Senior Award Nominations are for those who have made major contributions over their working lives.

David Craig Medal (Chemistry): This award is made annually and recognises contributions of a high order to any branch of chemistry by active researchers. The awardee will be expected to present several public lectures in cities across Australia.

Hannan Medal (Mathematical sciences): The award is made at two-yearly intervals in one of three areas - 'Statistical Science', 'Pure Mathematics' and 'Applied & Computational Mathematics'. Special weight will be given to recent research.

Haddon King Medal (Mineral exploration): This award is made biennially and recognises contributions by a scientist resident within or beyond Australia for original and sustained contributions to earth and related sciences and in particular, for the discovery evaluation and exploitation of mineral deposits including hydrocarbons.

Jaeger Medal (Australian Earth Sciences): This award is made biennially to a scientist resident in Australia, or elsewhere, for scientist for investigations of a high order into the solid Earth or its oceans carried out in Australia or having some connection with Australian Earth science.

Ian Wark Medal and Lecture (Applied science): This award is made biennially and recognises contributions to the prosperity of Australia achieved through the advancement of scientific knowledge or its application or both.

Lyle Medal (Mathematics or Physics): The award is given in recognition of outstanding achievement by a scientist in Australia in the disciplines of mathematics or physics. Research conducted outside Australia can be taken into account provided the researcher has spent three of the last five years in Australia. Special weight will be given to recent work in determining the award.

Deadline and nomination process

A completed nomination form with attachments is to be emailed to ac@science.org.au. Referee reports should be emailed to ac@science.org.au by Monday, 30 August 2004. One copy to RGEB

Further information

<http://www.science.org.au/aashome.htm>

15. Australian Academy of Science - Awards for Early Career Researchers (30 August 2004)

The following awards are restricted to candidates who are normally resident in Australia and for research conducted mainly in Australia. Nominees must be under 40 years at the closing date, except in the case of significant interruptions to a research career.

Dorothy Hill Award (reef sciences, ocean drilling, marine geology and taxonomy): The award will support research in the earth sciences including reef science, ocean drilling, marine science and taxonomy, by female researchers. This award is made annually and an honorarium of \$5000 (inclusive of GST) will be awarded.

Fenner Medal (biology – excluding biomedical sciences): This medal recognises distinguished research in biology (excluding the biomedical sciences) but includes the study of plants and non-mammalian animals, by scientists. This award is made annually and an honorarium of \$1000 (inclusive of GST) will be awarded (or shared in the case of multiple awards).

Gottschalk Medal (medical science): This award is given in recognition of outstanding medical science research. The award is made annually and an honorarium of \$1000 (inclusive of GST) will be awarded or shared in the case of multiple awards.

Pawsey Medal (physics): This award is given in recognition of outstanding research in physics. The award is made annually and an honorarium of \$1000 (inclusive of GST) will be awarded or shared in the case of multiple awards.

Moran Medal (statistical science): This award recognises outstanding research in the fields of applied probability, biometrics, mathematical genetics, psychometrics and statistics (statistical science). The award is normally made every two years. An honorarium of \$1000 (inclusive of GST) will be awarded or shared where there are multiple awards.

Le Fèvre Memorial Prize (chemistry): This award recognises outstanding research in chemistry. An honorarium of \$3000 (inclusive of GST) is awarded annually or shared in the case of multiple awards.

Frederick White Prize (physical, terrestrial and planetary sciences): This prize is awarded biennially to scientists. The next call for nominations is expected to be in May 2005.

Deadline and submission requirements

A completed nomination form with attachments to be emailed to ac@science.org.au. Please provide RGEb with a copy. Referee reports should also be emailed to ac@science.org.au by Monday, 30 August 2004

Further information

<http://www.science.org.au/aashome.htm>

16. ARC Federation Fellowships - Funding commencing in 2005 (20 September 2004)

The ARC has made available the 'Funding Rules' for the ARC Federation Fellowships for funding commencing in 2005. The application form will be made available in GAMS in about two weeks time.

Deadline for applications

The RGEb closing date will be Monday, 20 September 2004. The ARC closing date is Friday, 15 October 2004. Monash submission procedures will shortly be announced.

Further information

<http://www.monash.edu.au/resgrant/grantinfo/arc/arcfed2005.html>

17. ARC Centres of Excellence round in 2004 (deadline yet to be advised)

The ARC Centres of Excellence program aims to place Australia at the forefront of world research in the Government's designated areas of research priority. ARC Centres of Excellence with funding commencing in 2005 must be established on the basis of the excellence of the proposed research program and the excellence of the participating researchers. There must be high potential for both these factors to contribute to the economic, social and cultural development of Australia.

This call for applications for Centres of Excellence with funding commencing in 2005 is the second round of applications in this program. The first round of applications was completed in 2002.

Unlike the previous application round, the 2005 funding round has only a single application form. There is no requirement to submit an Expression-of-Intent to apply.

Deadline and submission requirements

The closing date will be announced soon. Further details will be provided as soon as they have been made available from the ARC or the Research Grants and Ethics Branch (RGEB)

Further information

http://www.arc.gov.au/apply_grants/centres.htm

18. Research Grants and Ethics Branch (RGEB): funding opportunities web page

The Research Grants and Ethics Branch (RGEB) maintains monthly lists of research grant funding opportunities on its website at

<http://www.monash.edu.au/resgrant/grantinfo/digest/indexes/rgmonth.html>

Part D - Dates and deadlines

19. Summary of upcoming dates and deadlines

Monday, 26 July 2004

- Monash Centre for Synchrotron Science seminar

Thursday, 5 August 2004

- FEAST-France: Cotutelle Event in Victoria

Wednesday, 11 August 2004 (at 9:00 am)

- Deadline for applications for Collier Charitable Fund: Equipment Grants for Research and Teaching (with the Faculty of Science office)

Monday, 16 August 2004

- Deadline for call for papers for Second AGSE Regional Entrepreneurship and Innovation Research Exchange

Wednesday, 18 August 2004

- Faculty of Science 'Postgraduate Research Expo'
- Feast-Cordis: The gateway to research and industry partnerships with Europe

Thursday, 19 August 2004

- Faculty of Science 'Heavenly attractions at Monash: an astronomical eve

Monday, 23 August 2004

- Deadline for applications for Australian-American Fulbright Commission - Fulbright Awards 2005 (with RGEB)

Monday, 23 August 2004 - Thursday, 26 August 2004

- International workshop on "Insect Sensors and Robotics"

Monday, 30 August 2004

- Deadline for applications for Australian Academy of Science - Senior Awards (with the Australian Academy of Science)
- Deadline for applications for Australian Academy of Science - Awards for Early Career Researchers (with the Australian Academy of Science)

Monday, 20 September 2004

- (with RGEB)

Sunday, 26 September 2004.

- Fringe Inventions